**WY-30 CONTROL SEQUENCES**

Control Sequences for the native personality:

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| **Communication Modes** |
| Turn full-duplex mode on | ESC C ESC D F |
| Turn block mode on | ESC B |
| Turn block mode off | ESC C |
| Turn half-duplex block mode on | ESC D H ESC B |
| Turn half-duplex mode on  | ESC C ESC D H  |
| Monitor mode on | ESC U |
| Monitor mode off | ESC u or ESC X |
| **Compatible and Enhance Modes** |
| Set comaptible and Enhance modes | ESC ~ *mode* |
| *mode* Compatible Mode" WY-30# Televideo 910+$ Televideo 925% ADDS VP A2Space Enhance mode off! Enhance mode on |
| **Editing Modes** |
| Turn remote edit keys mode on | ESC l |
| Turn local edit keys mode on | ESC k |
| **Sending Data in Block Mode** |
| Send one character | ESC M |
| Send entire line | ESC 6 |
| Send unprotected line | ESC 4 |
| Send page | ESC 7 |
| Send unprotected page | ESC 5 |
| Place STX character | ESC 8 |
| Place ETX character | ESC 9 |
| Send a block of data | ESC s |
| Send a block of unprotected characters | ESC S |
| **Identifying the Terminal** |
| Send terminal identifier | ESC SPACE |
| When the terminal receivesthis sequence, it identifiesitself by transmitting thisthree byte string to the computer: 3 0 CR 33H 30H 0DH |
| **Page Print Functions** |
| Print formatted page | ESC P |
| Print formatted unprotected page | ESC @ |
| Print unformatted page | ESC p or ESC L |
| **Function Keys** |
| Program a programmable key | ESC z *key sequence* DEL |
| Key? *key* shifted keyESC TAB !BACKSPACE "BREAK/DEL #RETURN $LINEFEED %UP +DOWN ,LEFT -RIGHT .HOME /ENTER sKPD , pKPD - qKPD . rKPD 0 tKPD 1 uKPD 2 vKPD 3 wKPD 4 xKPD 5 yKPD 6 zKPD 7 {KPD 8 |KPD 9 }F1 @ `F2 A aF3 B bF4 C cF5 D dF6 E eF7 F fF8 G g----------------------------------*sequence* Up to 64 bytes of data to be loaded into key. Limit total of non- volatile memory is 121 characters, but more can be entered.DEL The  |
| Clear a programmable key | ESC z *key* DEL |
| Key? *key* shifted keyESC TAB !BACKSPACE "BREAK/DEL #RETURN $LINEFEED %UP +DOWN ,LEFT -RIGHT .HOME /ENTER sKPD , pKPD - qKPD . rKPD 0 tKPD 1 uKPD 2 vKPD 3 wKPD 4 xKPD 5 yKPD 6 zKPD 7 {KPD 8 |KPD 9 }F1 @ `F2 A aF3 B bF4 C cF5 D dF6 E eF7 F fF8 G g---------------------------------- |
| **Print Modes** |
| Copy print mode on | CTRL R |
| Copy print mode Off | CTRL T |
| Transparent print mode on | CTRL X |
| Transparent print mode off | CTRL T |
| **Character Sets** |
| Turn graphics mode on | ESC H CTRL B |
| Turn graphics mode off | ESC H CTRL C |
| Display a graphics character | ESC H *char* |
| Graphics *char* Graphics *char*Character Character 0 8 1 9 2 : 3 ; 4 < 5=6> 7 ? |
| **Local Commands** |
| Lock keyboard | CTRL O or ESC # |
| Unlock keyboard | CTRL N or ESC " |
| Turn monitor mode on | ESC U |
| Turn monitor mode off | ESC u or ESC X |
| **Display Message Fields** |
| Program/Display message on status line | ESC F *message* CR |
| Displays message on status line.Can be up to 46 characters |
| Program/Display message on unshifted label line | ESC z ( *message* CR |
| Displays message on unshiftedlabel line. Contains up to 78 characters |
| Program message on shifted label line | ESC z ) *message* CR |
| Programs message on shifted label line. Contains up to 78 characters |
| Turn off shifted label line | ESC z DEL |
| Program/Display one label | ESC z *field label* CR |
| Function *Field Code**Key Unshifted Shifted**F1 0 P**F2 1 Q**F3 2 R**F4 3 S**F5 4 T**F6 5 U**F7 6 V**F8 7 W**label is a character string of up**to 8 characters* |
| Clear function key label | ESC z *field* CR |
| Function *Field Code*Key Unshifted ShiftedF1 0 PF2 1 QF3 2 RF4 3 SF5 4 TF6 5 UF7 6 VF8 7 W |
| Clear unshifted label line | ESC z ( CR |
| Clear shifted label line | ESC z ) CR |
| **Screen and Cursor Display** |
| Turn screen display off | ESC ` 8 |
| Turn screen display on | ESC ` 9 |
| Set cursor display feature | ESC ` *feature* |
| *feature* Cursor Display0 Off1 On (default)2 Steady block3 Blinking line4 Steady line5 Blinking block |
| **Split Screen** |
| Split screen horizontally | ESC x 1 *line* |
| Line *line* Line *line*Num Num1 space 2 !3 " 4 #5 $ 6 %7 & 8 '9 ( 10 )11 \* 12 +13 , 14 -15 . 16 /17 0 18 119 2 20 321 4 22 523 6 24 7 |
| Activate the other data segment | ESC J or ESC K |
| Activate the upper data segment | ESC ] or ESC c |
| Activate the lower data segment | ESC } |
| Read active segment and cursor address | ESC / |
| In response to this, the terminalsends the following string: seg line col CRseg=0 is upper; seg=1 is lowerline is line codecol is column code |
| Redefine screen as one segment | ESC x 0 |
| **Scrolling** |
| Set scrolling speed and type | ESC ` *type* |
| *type* Scrolling Type Speed lps@ Jump scroll at Baud< Smooth scroll 1=Smooth scroll 2 G Smooth scroll 3> Smooth scroll 4? Smooth scroll 8H Smooth scroll 15I Smooth scroll 20 |
| Turn autoscroll mode off | ESC N |
| Turn autoscroll mode on | ESC O |
| **Display Attributes** |
| Set field display attribute | ESC A *n attr* |
| *n* Screen Area0 Data area1 Function key label line2 Terminal message field on status line3 Computer message field on status line*attr* Display AttributeSPACE Space character0 Normal1 Blank2 Blink3 Blank4 Reverse5 Reverse/Blank6 Reverse/Blink7 Reverse/Blink/Blank8 Underline9 Underline/Blank: Underline/Blink; Underline/Blink/Blank< Underline Reverse=Underline/Reverse/Blank> Underline/Reverse/Blink? Underline/Reverse/Blink/ Blankp Dimq Dim/Blankr Dim/Blinks Dim/Blink/Blankt Dim/Reverseu Dim/Reverse/Blankv Dim/Reverse/Blinkw Dim/Reverse/Blink/Blankx Dim/Underliney Dim/Underline/Blankz Dim/Underline/Blank{ Dim/Underline/Blink/ Blank| Dim/Underline/Reverse} Dim/Underline/Reverse/ Blank~ Dim/Underline/Reverse/ BlinkDEL Dim/Underline/Reverse/ Blink/Blank |
| Set display attributes | ESC ^ *n* |
| n Attribute0 Turn reverse screen off1 Turn reverse screen on2 Attribute active to end of page3 Attribute active to end of line |
| **Addressing/Reading the Cursor** |
| Address cursor | ESC a *line* R *column* C |
| *line* one or two digit  decimal value of the line relative to home.*column* one or two digit  decimal value of the column relative to  home. |
| Address cursor to line and column | ESC = *line column* |
| Line *line* Line *line*Num Num1 space 2 !3 " 4 #5 $ 6 %7 & 8 '9 ( 10 )11 \* 12 +13 , 14 -15 . 16 /17 0 18 119 2 20 321 4 22 523 6 24 7Column *col* Column *col*Number Number1 SPACE 2 !3 " 4 #5 $ 6 %7 & 8 '9 ( 10 )11 \* 12 +13 , 14 -15 . 16 /17 0 18 119 2 20 321 4 22 523 6 24 725 8 26 927 : 28 ;29 < 30=31> 32 ?33 @ 34 A35 B 36 C37 D 38 E39 F 40 G41 H 42 I43 J 44 K45 L 46 M47 N 48 O49 P 50 Q51 R 52 S53 T 54 U55 V 56 W57 X 58 Y59 Z 60 [61 \ 62 ]63 ^ 64 \_65 ` 66 a67 b 68 c69 d 70 e71 f 72 g73 h 74 i75 j 76 k77 l 78 m79 n 80 o |
| Home cursor | ESC { or CTRL ^ |
| Move cursor to data segment and address | ESC - *seg line col* |
| *seg* Data Segment0 Upper1 LowerLine *line* Line *line*Num Num1 space 2 !3 " 4 #5 $ 6 %7 & 8 '9 ( 10 )11 \* 12 +13 , 14 -15 . 16 /17 0 18 119 2 20 321 4 22 523 6 24 7Column *col* Column *col*Number Number1 SPACE 2 !3 " 4 #5 $ 6 %7 & 8 '9 ( 10 )11 \* 12 +13 , 14 -15 . 16 /17 0 18 119 2 20 321 4 22 523 6 24 725 8 26 927 : 28 ;29 < 30=31> 32 ?33 @ 34 A35 B 36 C37 D 38 E39 F 40 G41 H 42 I43 J 44 K45 L 46 M47 N 48 O49 P 50 Q51 R 52 S53 T 54 U55 V 56 W57 X 58 Y59 Z 60 [61 \ 62 ]63 ^ 64 \_65 ` 66 a67 b 68 c69 d 70 e71 f 72 g73 h 74 i75 j 76 k77 l 78 m79 n 80 o |
| Read cursor address | ESC ? |
| Terminal returns a three byteaddress: *line col* CRLine *line* Line *line*Num Num1 space 2 !3 " 4 #5 $ 6 %7 & 8 '9 ( 10 )11 \* 12 +13 , 14 -15 . 16 /17 0 18 119 2 20 321 4 22 523 6 24 7Column *col* Column *col*Number Number1 SPACE 2 !3 " 4 #5 $ 6 %7 & 8 '9 ( 10 )11 \* 12 +13 , 14 -15 . 16 /17 0 18 119 2 20 321 4 22 523 6 24 725 8 26 927 : 28 ;29 < 30=31> 32 ?33 @ 34 A35 B 36 C37 D 38 E39 F 40 G41 H 42 I43 J 44 K45 L 46 M47 N 48 O49 P 50 Q51 R 52 S53 T 54 U55 V 56 W57 X 58 Y59 Z 60 [61 \ 62 ]63 ^ 64 \_65 ` 66 a67 b 68 c69 d 70 e71 f 72 g73 h 74 i75 j 76 k77 l 78 m79 n 80 o |
| Read cursor address | ESC b |
| Terminal responds with a sevenbyte address: *ll* R *ccc* C*ll* is a is a two digit  decimal value of the line relative to home.*ccc* is a two digit decimal value (with a leading  zero) of the column  relative to home. |
| Read segment number and cursor address | ESC / |
| Terminal responds with a fourcharacter string as: *seg line col* CR*seg* Data Segment0 Upper1 LowerLine *line* Line *line*Num Num1 space 2 !3 " 4 #5 $ 6 %7 & 8 '9 ( 10 )11 \* 12 +13 , 14 -15 . 16 /17 0 18 119 2 20 321 4 22 523 6 24 7Column *col* Column *col*Number Number1 SPACE 2 !3 " 4 #5 $ 6 %7 & 8 '9 ( 10 )11 \* 12 +13 , 14 -15 . 16 /17 0 18 119 2 20 321 4 22 523 6 24 725 8 26 927 : 28 ;29 < 30=31> 32 ?33 @ 34 A35 B 36 C37 D 38 E39 F 40 G41 H 42 I43 J 44 K45 L 46 M47 N 48 O49 P 50 Q51 R 52 S53 T 54 U55 V 56 W57 X 58 Y59 Z 60 [61 \ 62 ]63 ^ 64 \_65 ` 66 a67 b 68 c69 d 70 e71 f 72 g73 h 74 i75 j 76 k77 l 78 m79 n 80 o |
| **Moving the Cursor** |
| Move cursor to column one | CTRL M |
| Move column right one column | CTRL L |
| Move cursor left one column | CTRL H |
| Move cursor down one line in column (scroll) | CTRL J |
| Move cursor up one line in column (wrap) | CTRL K |
| Move cursor down one line in column (no wrap) | CTRL V |
| Move cursor to column one of next line (scroll) | CTRL \_ |
| Move cursor up in column (scroll) | ESC j |
| **Tab Stops** |
| Set tab stop | ESC 1 |
| Clear tab stop at cursor | ESC 2 |
| Clear all tab stops | ESC 0 |
| Tabulate cursor | CTRL I |
| Backtab | ESC I |
| **Creating Protected Forms** |
| Turn write protect mode on | ESC ) |
| Turn write protect mode off | ESC ( |
| Turn protect mode on | ESC & |
| Turn protect mode off | ESC ' |
| Protect column | ESC V |
| Set protect character attribute | ESC ` *attr* |
| *attr* Attribute7 DimA NormalC Double wideE Double wide and dim |
| **Editing** |
| Turn insert mode on | ESC q |
| Turn insert mode off | ESC r |
| Insert one space character | ESC Q |
| Insert line of space characters | ESC E |
| Delete cursor character | ESC W |
| Delete line | ESC R |
| **Clearing Data** |
| Clear screen to nulls | ESC \* |
| Turn insert mode off | ESC r |
| Insert one space character | ESC Q |
| Insert line of space characters | ESC E |
| Delete cursor character | ESC W |
| Delete line | ESC R |
| **Local Keyboard Commands** |
| Toggle keyclick | CTRL ENTER |
| Toggle monitor mode | CTRL LEFT ARROW |
| Toggle status line | CTRL RIGHT ARROW |
| Toggle BLK/FDX | CTRL BACKSPACE |
| Increase scrolling rate | CTRL UP ARROW |
| Decrease scrolling rate | CTRL DN ARROW |
| Unlock keyboard | SETUP |
| Reset all terminal modes | CTRL SETUP |
| Clear screen to nulls, home cursor | CTRL HOME |
| Toggle copy print mode | CTRL KPD 2 |
| Toggle transparent print mode | CTRL SHIFT KPD 2 |
| Print screen unformatted | CTRL KPD 0 |
| Print Screen Formatted | CTRL SHIFT KPD 0 |